

ABSTRACT

An ultrasonic transmitting and receiving apparatus is provided that has a simplified structure, can be stably supplied, and has an increased reliability and improved appearance without degrading characteristics, such as directivity and reverberation.

An ultrasonic transmitting and receiving apparatus 50 includes a casing 1, a vibration isolating member 2, and a piezoelectric element 3. The casing 1 has a bottom 4, an inner peripheral wall 5, and an outer peripheral wall 6, and these components are integral to form a monolithic structure. The inner peripheral wall 5 and the bottom 4 define a first recess 7. The outer peripheral wall 6, the inner peripheral wall 5, and the bottom 4 define a second recess 8. The second recess 8 is filled with the vibration isolating member 2. The piezoelectric element 3 is fixed on the bottom facing the first recess 7 in the casing 1.